Abstract

Disclosed are a rotation angle detection device including: a stator provided with a one-phase excitation winding and two-phase output windings; and a rotor having salient poles, and a dynamo-electric machine using the same. The two-phase output windings are wound around a plurality of teeth of the stator, and respective numbers of turns of the two-phase output windings are obtained by using m-phase windings (m is an integer of 3 or more) imaginarily defined to convert the numbers of turns of the m-phase windings into those of two-phase windings. Thus, since the number of phases decreases compared with the case in which the windings are structured with m phases, a structure is simplified, and a manufacturing process is facilitated.